

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of quantifying a substrate in a sample which method comprises the steps of:

(a) contacting a sample containing a substrate with a reaction reagent comprising at least a dehydrogenase, a coenzyme, an electron mediator and a ~~tetrazolium salt~~ (2-(4-indophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfophenyl)-2-tetrazolium performing an enzyme reaction and a redox reaction between which produces a water-soluble, stable formazan, then,

(b) detecting the water-soluble formazan formed from the (2-(4-indophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfophenyl)-2H-tetrazolium as the final reaction product using an electrode system made of electrically conductive materials, and

(c) correlating an increase in electrical current in the electrode system with a quantity of substrate in the sample.

2. (Original) The method as claimed in Claim 1 wherein said substrate is alanine, an alcohol, an aldehyde, isocitric acid, uridine-5'-diphospho-glucose, galactose, formic acid, glyceraldehyde-3-phosphate, glycerol, glycerol-3-phosphate, glucose, glucose-6-phosphate, glutamic acid, cholesterol, sarcosine, sorbitol, carbonic acid, lactic acid, 3-hydroxybutyric acid, pyruvic acid, phenylalanine, fructose, 6-phosphogluconic acid, formaldehyde, mannitol, malic acid or leucine.

3. (Original) The method as claimed in Claim 1 wherein said formazan is electrochemically changed by applying a certain potential to said electrode system and the thus arising response current is detected.

4. (Original) A biosensor for detecting said formazan by using the method as claimed in Claim 1 wherein said reaction reagent and electrode system consisting of at least a working electrode and a counter electrode made of electrically conductive materials are integrated.

5. (Original) The biosensor as claimed in Claim 4 wherein said formazan is electrochemically changed by applying a certain potential to said electrode system and the thus arising response current is detected.

6.-7. Canceled.

8. (Currently Amended) The biosensor ~~according to~~ claim 4, or 5 or 7 wherein the following three components (a), (b) and (c) are individually immobilized ~~on the~~ electrode system:

(a) said ~~tetrazolium salt~~ (2-(4-indophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfophenyl)-2-tetrazolium, a dehydrogenase and a coenzyme ~~thereof~~ immobilized on an absorbent carrier;

(b) an electron mediator immobilized on the counter electrode; and

(c) components of a buffer immobilized on the working electrode.